STATE FOREST LAND
ENVIRONMENTAL CHECKLIST

Purpose of Checklist:

The State Environmental Policy Act (SEPA), chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decided whether an EIS is required.

Instructions for Applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can. *Questions in italics are supplemental to Ecology's standard environmental checklist. They have been added by the DNR to assist in the review of state forest land proposals. Adjacency and landscape/ watershed-administrative-unit (WAU) maps for this proposal are available on the DNR internet website at http://www.dnr.wa.gov under "SEPA Center." These maps may also be reviewed at the DNR regional office responsible for the proposal. This checklist is to be used for SEPA evaluation of state forest land activities.*

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later. *All of the questions are intended to address the complete proposal as described by your response to question A-11. The proposal acres in question A-11 may cover a larger area than the forest practice application acres, or the actual timber sale acres.*

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Use of checklist for nonproject proposals:

Complete this checklist for nonproject proposals, even though questions may be answered " does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NON PROJECT ACTIONS (part D).

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer" and "affected geographic area," respectively.

A. BACKGROUND

1. Name of proposed project, if applicable:

   Timber Sale Name: GUNDERSON LOOKOUT *Agreement #:30-084610*

2. Name of applicant: Washington Department of Natural Resources

3. Address and phone number of applicant and contact person:
   Chance Brumley
   Olympic Region
   411 Tillicum Lane
   Forks, Wa 98331
   (360) 374-2800

4. Date checklist prepared: 06/17/2009

5. Agency requesting checklist: Washington Department of Natural Resources

6. Proposed timing or schedule (including phasing, if applicable):

   a. Auction Date:12/30/2009
   b. Planned contract end date (but may be extended):12/30/2010
   c. Phasing:

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

   Timber Sale

   a. Site preparation: *No*

   b. Regeneration Method:
   TSU NO :1 HAND PLANT *01/01/2011* *45 acres*

   c. Vegetation Management: Treatment needs will be an ongoing assessment

   d. Thinning: Treatment needs will be evaluated during future assessments

   Roads: Road maintenance, periodic ditch and culvert cleanout as necessary.

   Rock Pits and/or Sale: Thunder Creek Pit, Mary Clark Pit

Other:

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

☐ *303 (d) – listed water body in WAU:* ☐ *temp* ☐ *sediment* ☐ *completed TMDL (total maximum daily load):*
☐ *Landscape plan:*
☒ *Watershed analysis: Sol Duc Watershed Analysis dated August 7,1995*
☐ *Interdisciplinary team (ID Team) report:*
☒ *Road design plan: Dated June 2, 2009*
☐ *Wildlife report:*
☐ *Geotechnical report:*
☐ *Other specialist report(s):*
☐ *Memorandum of understanding (sportsmen's groups, neighborhood associations, tribes, etc.):*
☒ *Rock pit plan: Thunder Creek Pit Plan, Mary Clark Pit Plan dated June 2, 2009*
☒ *Other:* Policy for Sustainable Forests (July 2006); Final Habitat Conservation Plan (September 1997); State Soil Survey; OESF Marbled Murrelet Habitat Model; Forestry Handbook (August 1999). Sustainable Harvest Calculation (Sept 2004);

All documents may be obtained at the Olympic Region Office for review during the SEPA comment period.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.
No

10. List any government approvals or permits that will be needed for your proposal, if known.

☐ *HPA* ☐ *Burning permit* ☐ *Shoreline permit* ☒ *Incidental take permit* ☒ *FPA #* _____ ☒ *Other: Board of Natural Resources*

11. Give brief, complete description of our proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include specific information on project description.)

a. Complete proposal description:
The Gunderson Lookout timber sale is a one unit variable retention harvest located on Capitol Grant trust lands within the Coast District of the Olympic Experimental State Forest within the Sol Duc Lowlands WAU. The total proposal area encompasses approximately 49 acres following field recon, 48.7 acres were selected for the proposed timber sale area. Excluding leave tree areas and existing road acreage, the net harvest acres for this proposal is 44.4. Green tree retention trees were selected both individually and in clumps and are included in the timber sale area acreage. This proposal was designed under the guidelines of the Habitat Conservation Plan (HCP) and the Sol Duc Watershed Analysis.

Estimated sale volume:	1,236 mbf
Total Proposal Acres:	49
RMZ Acres:	0
Timber Sale Area Acres:	48.7
Net Harvest Acres:	44.4
Leave Tree Area Acres:	2.5
Total Leave Trees:	390

Approximately 25 feet of reconstruction and 10,032 feet of pre-haul maintenance are proposed to meet access needs into the sale area. The designated rock sources for this proposal are Thunder Creek Pit located in Section 14 of Township 29 North Range 14 West, and Mary Clark Pit located in Section 32 of Township 30 North Range 12 West.

b. Timber stand description pre-harvest (include major timber species and origin date), type of harvest, overall unit objectives.

The Gunderson Lookout timber sale is composed of an even-aged stand approximately 60 years of age. Western hemlock dominates the site with some Sitka spruce, Douglas-fir, and red alder present in areas throughout. The terrain is steep. Cable harvest and ground based methods are proposed. The unit objectives are as follows:

Ecological- Promote diverse forest structure across the landscape while preserving ecological integrity and function.
Economic- Generate revenue for Capitol Grant trust.
Statute- Comply with the HCP, Forest Practice rules, Sol Duc Watershed Analysis, and implement the Policy for Sustainable Forests.
Social- Facilitate research and monitoring opportunities and accommodate recreational activities on DNR manage lands.

Specific objectives include protection of soils and habitat conservation for threatened and endangered species.

c. Road activity summary. See also forest practice application (FPA) for maps and more details.

Type of Activity	How Many	Length (feet) (Estimated)	Acres (Estimated)	Fish Barrier Removals (#)
Construction				
Reconstruction		25		
Abandonment				
Bridge Install/Replace				
Culvert Install/Replace (fish)				
Culvert Install/Replace (no fish)				

10,032 feet of pre-haul maintenance is planned in conjuncture with this proposal

12. Location of proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist. *(See timber sale map available at DNR region office, and/or color landscape/WAU map on the DNR website http://www.dnr.wa.gov under "SEPA Center.")*

a. Legal description:

T29N R13W S17
T29N R13W S20

b. Distance and direction from nearest town (include road names):
This proposal is located approximately 5 road miles north of Forks, Washington via Highway 101, the D-2000, and the D-2020 road system.

c. Identify the watershed administrative unit (WAU), the WAU Sub-basin(s), and acres. (See also landscape/WAU map on DNR website http://www.dnr.wa.gov under " SEPA Center.")

WAU Name	WAU Acres	Proposal Acres
SOL DUC LOWLANDS	22229.2	49

13. Discuss any known future activities not associated with this proposal that may result in a cumulative change in the environment when combined with the past and current proposal(s). (See digital ortho-photos for WAU and adjacency maps on DNR website http://www.dnr.wa.gov under "SEPA Center" for a broader landscape perspective.)

This proposal is located within the Sol Duc Lowlands WAU within the Olympic Experimental State Forest. There are 22,229 acres within the WAU. Areas directly adjacent to the proposal area are under DNR and private ownership. Surrounding areas are composed primarily of privately and state managed forest land. The following tables break down land ownership within the WAUs.

Sol Duc Lowlands WAU

Land Owner	Acres	% of WAU
DNR	4832	21.7
Federal	3036	13.7
Tribal	0	0
Other State (Non-DNR)	6	0
Other Land (Private & Other Public Land)	14355	64.6

Activities within the past seven years and those proposed for the near future are summarized for Sol Duc Lowlands WAU in the following table. On DNR ownership during this seven year time frame 518 acres of even-age acres of harvest have occurred within the WAU. Proposed harvests for the WAU on DNR managed land totaling 75 acres of even-aged harvest and 0 acres of uneven-age harvest include D-2200 Again timber sale. In the future, stands will be selected for regeneration, thinning, and partial cut harvests as they meet the Department's financial and ecological policies and mandates. Over the past seven years, on Non-DNR managed lands 2232 acres of even-aged harvest has occurred in the Sol Duc Lowlands WAU. It is unknown what future plans other landowners have within these WAUs.

WAU		Even-aged Harvest acres within the last seven year	Uneven-aged Harvest acres within the last seven year	Planned Even-aged Harvest	Planned Uneven-aged Harvest	Salvage Harvest Acres within last seven years
Sol Duc Lowlands	DNR Managed Land	518	346	350	0	5
	Other Ownership	2232	450	Unknown	Unknown	0
	Total	**2750**	**796**	**420**	**0**	**5**

Several measures have been taken to ensure that this proposal will not contribute to cumulative adverse environmental impacts. In order to prevent potential damages to soil and water resources from excessive rutting and potential sediment delivery, ground based logging will be restricted to tracked equipment only and cable logging will require lead end suspension. Wet weather restrictions will be in effect. Road reconstruction and maintenance activities will be in compliance with the HCP, and current Forest Practices regulations. The work detailed in the road plan has been designed to improve surfacing on the haul roads, and provide for better drainage. Soils exposed during road construction activities will be protected from erosion by grass seeding and mulching with hay.

This proposal area is within Geomorphic Management Unit (GMU) #51 of the Sol Duc Watershed Analysis. For this GMU the Surface Erosion #1 prescription is to be utilized. The prescription calls for full suspension within 150' of channels and no broadcast burning. There are no stream channels within or adjacent to the proposal area and broadcast burning will not occur following harvest.

The DNR mitigates for the potential of significant adverse environmental impacts to northern spotted owls in the OESF by implementing the HCP strategy. This strategy established threshold percentages for spotted owl habitat on DNR-managed lands for Landscape Planning Units (LPU). Each LPU is managed to achieve and maintain at least 20% Old Forest Habitat and at least 40% of Old and Young Forest (or Structural) Habitat types taken together according to a schedule of habitat enhancement and harvest activities developed within the Forest Land Plan. Forest Land Planning has been initiated but not implemented. This proposal is not located in structural owl habitat, however 44.4 acres of the sale area is over 50 years of age. This proposal is in the Sol Duc watershed but administratively it is in the Dickodochtedar LPU and harvest of this acreage will be subject to the acreage limitations within Dickodochtedar LPU.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (check one):

☐Flat, ☐Rolling, ☐Hilly, ☒Steep Slopes, ☐Mountainous, ☐Other:

1) *General description of the WAU or sub-basin(s) (landforms, climate, elevations, and forest vegetation zone).*

The Sol Duc Lowlands WAU is located near the western coast of the Olympic Peninsula.
Elevation: 27 – 1849ft. with a mean elevation of 444 ft.
Annual Precipitation: weighted average 105 inches annually
Forest Vegetation Type: Western Hemlock
Peak Rain on Snow: 5.6% of the total acres within this WAU are within the peak rain on snow zone

2) *Identify any difference between the proposal location and the general description of the WAU or sub-basin(s).*
The proposal area ranges in elevation from 680 to 1240 feet with 0 acres in the rain-on-snow zone

b. What is the steepest slope on the site (approximate percent slope)?
100%

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland. *Note: The following table is created from state soil survey data. It is a roll-up of general soils information for the soils found in the entire sale area. It is only one of several site assessment tools used in conjunction with actual site inspections for slope stability concerns or erosion potential. It can help indicate potential for shallow, rapid soil movement, but often does not represent deeper soil sub-strata. The actual soils conditions in the sale area may vary considerably based on land-form shapes, presence of erosive situations, and other factors. The state soil survey is a compilation of various surveys with different standards.*

State Soil Survey #	Soil Texture or Soil Complex Name	% Slope	Acres	Mass Wasting Potential	Erosion Potential
7421	V.GRAVELLY LOAM	35-70	49	MEDIUM	HIGH

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

1) *Surface indications:* There are steep convergent slopes in the area, however there is no potential for delivery to a public resource and no threat to public safety.

2) *Is there evidence of natural slope failures in the sub-basin(s)?*
☐*No* ☒*Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:*
Within the upper reaches of WAU there are areas of shallow landslides and mass wasting. These are mainly associated with incised streams and headwall areas.

3) *Are there slope failures in the sub-basin(s) associated with timber harvest activities or roads?*
☐*No* ☒*Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:*
Associated management activity:
There are areas within the WAU where slope failures have occurred mainly associated with past road construction practices.

4) *Is the proposed site similar to sites where slope failures have occurred previously in the sub-basin(s)?*
☒*No* ☐*Yes, describe similarities between the conditions and activities on these sites:*

5) *Describe any slope stability protection measures (including sale boundary location, road, and harvest system decisions) incorporated into this proposal.*

All potentially unstable slopes have been excluded from the sale area.

The Gunderson Lookout timber sale unit was traversed by a State Lands Geologist in July 2009. The presence of an ancient deep-seated bedrock landslide was verified; this feature is a relict landslide with a very steep head scarp (nearly all of the slopes are greater than 70%), hummocky body, and well-defined low-gradient double-lobed toe. Field observations showed no signs of recent deep-seated activity in the steep scarp, the over story vegetation, or the body of the landslide. In addition, aerial photograph analysis of 1:12,000 photos taken in 1981, 1997, and 2003 revealed no signs of large-scale deep-seated slope movement. There were no draws through the body of the landslide that were running water and no evidence of overland flow. As measured on LiDAR, there is an 800-foot low-gradient bench between the farthest extent of the landslide toe and the nearest channel, which contains an unnamed Type 3 stream. Two leave tree areas within, and in the vicinity of, the deep-seated feature exclude the more convergent slopes from the sale.

The upper (western) slopes in the unit are exceedingly steep (nearly all greater than 70% and in places in excess of 100%); however, leave tree areas were selected to exclude the convergent areas along these slopes. There is still at least a moderate likelihood that shallow rapid movement could occur, due to the steepness of the upper slopes; however, the probability that a shallow rapid landslide would deliver to a public resource is very low. There are no defined channels included in the sale that are continuous from the steep slopes down to the base of the slope and no water was found on-site. In addition, there is a

low-gradient bench of approximately 800 feet between the base of the slope and the nearest channel that would provide run-out for shallow rapid landslides.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.
Approx. acreage new roads: 0 *Approx. acreage new landings:* 1 *Fill source: Thunder Creek Pit*

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.
Yes, a minor amount of erosion could occur during these operations

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? *Approximate percent of proposal in permanent road running surface (includes gravel roads):*
1%

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:
(Include protection measures for minimizing compaction or rutting.)
In order to prevent potential damages to soil resources from excessive rutting, ground based harvest will be restricted to tracked equipment only and will not be allowed during periods of wet weather. Road maintenance and reconstruction activities will utilize appropriate ditching, ditch outs, and culvert locations to minimize erosion potential and maintain natural drainage patterns.

2. Air

a. What types of emissions to the air would result from the proposal (i.e., dust *from truck traffic, rock mining, crushing or hauling*, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

Small amounts of engine exhaust from equipment and dust from log haul and road work

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.
No

c. Proposed measures to reduce or control emissions or other impacts to air, if any:
None

3. Water

a. Surface:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. *(See timber sale map available at DNR region office, or forest practice application base maps.)*

a) Downstream water bodies: Unnamed perennial streams and the Sol Duc River

b) Complete the following riparian & wetland management zone table:

Wetland, Stream, Lake, Pond, or Saltwater Name (if any)	Water Type	Number (how many?)	Avg RMZ/WMZ Width in Feet (per side for streams)

c) List RMZ/WMZ protection measures including silvicultural prescriptions, road-related RMZ/WMZ protection measures, and wind buffers.
There are no streams or wetlands within or directly adjacent to the proposal area.

2) Will the project require any work over, in, or adjacent to (within 200 feet) to the described waters? If yes, please describe and attach available plans.
☒*No* ☐*Yes (See RMZ/WMZ table above and timber sale map available at DNR region office.)*
Description (include culverts):

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.
None

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. *(Include diversions for fish-passage culvert installation.)*
☒*No* ☐*Yes, description:*

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.
☒*No* ☐*Yes, describe location:*

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.
☒*No* ☐*Yes, type and volume:*

7) Does the sub-basin contain soils or terrain susceptible to surface erosion and/or mass wasting? What is the potential for eroded material to enter surface water?

Yes. The potential for eroded material entering surface water is low. This is due to the fact that there are no streams within or directly adjacent to the sale area and the measures listed in B. 1. h.

8) Is there evidence of changes to the channels in the WAU and sub-basin(s) due to surface erosion or mass wasting (accelerated aggradations, erosion, decrease in large organic debris (LOD), change in channel dimensions)?

☐*No* ☒*Yes, describe changes and possible causes:*

Yes, areas within the Sol Duc Lowlands WAU show evidence of changes to stream channels. Some steep drainages in the WAU show evidence of debris torrent events which have increased the dimensions of affected drainage channels, exposed native bedrock which now forms the floor along segments of channels, and decreased the overall amount of large woody debris in the streams. These events may be attributed to past road construction techniques, inherently unstable slopes, or significant amounts of precipitation in short time periods

9) *Could this proposal affect water quality based on the answers to the questions 1-8 above?*
☐*No* ☒*Yes, explain:*
This proposal will have minimal affects on water quality. Measures described in B 1-h, wet weather restrictions on road work and logging operations will all contribute to reducing the potential of affecting water quality.

10) *What are the approximate road miles per square mile in the WAU and sub-basin(s)?* 3.4
Are you aware of areas where forest roads or road ditches intercept sub-surface flow and deliver surface water to streams, rather than back to the forest floor?
☐*No* ☒*Yes, describe:*
It is likely some road or road ditches within the WAU intercept sub-surface flow and deliver surface water to streams, however current standards for road construction and reconstruction address this issue by installing cross drains to deliver ditch water to stable forest floors.

11) *Is the proposal within a significant rain-on-snow (ROS) zone? If not,* ***STOP HERE*** *and go to question B-3-a-13 below. Use the WAU or sub-basin(s) for the ROS percentage questions below.*
☒*No* ☐*Yes, approximate percent of WAU in significant ROS zone.*
Approximate percent of sub-basin(s):

12) *If the proposal is within the significant ROS zone, what is the approximate percentage of the WAU or sub-basin(s) within the significant ROS zone (all ownerships) that is (are) rated as hydrologically mature?*

13) *Is there evidence of changes to channels associated with peak flows in the WAU or sub-basin(s)?*
☐*No* ☒*Yes, describe observations:*
This WAU has the potential for unstable slopes which in the case of slope failure can cause a shift in stream channel. Also, some stream segments show cutting and scouring which can be attributed to the absence of LWD during peak flow events. Refer to B3a8.

14) *Based on your answers to questions B-3-a-10 through B-3-a-13 above, describe whether and how this proposal, in combination with other past, current, or reasonably foreseeable proposals in the WAU and sub-basin(s), may contribute to a peak flow impact.*

This proposal should not measurably change the timing, duration, or amount of water in a peak flow event. The harvest prescription, unit size, and location (not in the Rain-on-Snow Zone), will minimize this proposal's potential contribution to peak flows.

15) *Is there water resource (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity that could be affected by changes in surface water amounts, quality, or movements as a result of this proposal?*
☒*No* ☐*Yes, possible impacts:*

16) *Based on your answers to questions B-3-a-10 through B-3-a-15 above, note any protection measures addressing possible peak flow/flooding impacts.*
Road maintenance and reconstruction will minimize impacts by using cross drains to release ditch water onto stable forest floors where much of the energy can be dissipated prior to reaching stream channels. Eight leave trees per acre will be retained on the site allowing for the evapotranspiration and interception. Seedlings will be planted
See B.1.h, B.3.a.1.c and A.13 for additional protection measures

b. Ground *Water*:

1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.
No

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.
Does Not Apply

3) *Is there a water resource use (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or down slope of the proposed activity that could be affected by changes in groundwater amounts, timing, or movements as a result this proposal?*
☒*No* ☐*Yes, describe:*

a) Note protection measures, if any.
Does Not Apply

c. Water Runoff (including storm water):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Storm water will be collected by roadside ditches. Ditch-outs and culvert cross-drains will divert storm water onto stable forest floor. This water will percolate through the soil and ultimately flow into streams which drain the area.

2) Could waste materials enter ground or surface waters? If so, generally describe.
No

a) *Note protection measures, if any.*
Does Not Apply

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:
(See surface water, ground water, and water runoff sections above, questions B-3-a-1-c, B-3-a-16, B-3-b-3-a, and B-3-c-2-a.)

4. Plants

a. Check or circle types of vegetation found on the site:

☒deciduous tree: ☒alder, ☐maple, ☐aspen, ☐*cottonwood,* ☐*western larch,* ☐*birch,* ☐other:
☒evergreen tree: ☒*Douglas fir,* ☐*grand fir,* ☒*Pacific silver fir,* ☐*ponderosa pine,* ☐*lodgepole pine,* ☒*western hemlock,* ☐*mountain hemlock,* ☐*Englemann spruce,* ☒*Sitka spruce,* ☒*red cedar,* ☐*yellow cedar,* ☐other:
☒shrubs: ☒*huckleberry,* ☒*salmonberry,* ☒*salal,* ☐*other:*
☐grass
☐pasture
☐crop or grain
☒wet soil plants: ☐cattail, ☐buttercup, ☐bullrush, ☐skunk cabbage, ☒*devil's club,* ☐other:
☐water plants: ☐water lily, ☐eelgrass, ☐milfoil, ☐other:
☐other types of vegetation:
☐*plant communities of concern:*

b. What kind and amount of vegetation will be removed or altered? *(See answers to questions A-11-a, A-11-b, B-3-a-1-b and B-3-a-1-c. The following sub-questions merely supplement those answers.)*

1) *Describe the species, age, and structural diversity of the timber types immediately adjacent to the removal area. (See landscape/WAU and adjacency maps on the DNR website at: http://www.dnr.wa.gov under "SEPA Center.")*
North: State timber approximately 15 yrs of age
South: Private timber approximately 15 years of age
East: Private timber approximately 15 years of age
West: State timber approximately 81 years of age with some understory reinitiation
2) *Retention tree plan:* Eight retention trees per acre, totaling 390 trees, have been selected and marked with a pink band or yellow leave tree area tags. Wind-firm, dominant, and structurally unique trees where targeted for retention and are arranged both individually and in aggregates throughout the unit

c. List threatened or endangered *plant* species known to be on or near the site.

TSU Number	FMU_ID	Common Name	Federal Listing Status	WA State Listing Status
None Found in Database Search				

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:
Douglas-fir, western hemlock, and western red cedar will be planted in the units following regeneration harvest, and other native conifer species may regenerate naturally on the site. Native grass seed will also be used on areas of exposed mineral soil during road building operations. Eight leave trees per acre will be left throughout the harvest areas. See A.7 (a.b.c.d.) and B.4.b.(2), above.

5. Animal

a. Circle or check any birds animals *or unique habitats* which have been observed on or near the site or are known to be on or near the site:

birds: ☐hawk, ☐heron, ☐eagle, ☒songbirds, ☐*pigeon,* ☐other:
mammals: ☒deer, ☐bear, ☒elk, ☐beaver, ☐other:
fish: ☐bass, ☐salmon, ☐trout, ☐herring, ☐shellfish, ☐other:
unique habitats: ☐*talus slopes,* ☐*caves,* ☐*cliffs,* ☐*oak woodlands,* ☐*balds,* ☐*mineral springs*

b. List any threatened or endangered species known to be on or near the site *(include federal- and state-listed species).*

TSU Number	FMU_ID	Common Name	Federal Listing Status	WA State Listing Status
1	19052	SPOTTED OWL: Site:21-LAKE CREEK - SOLEDUCK	THREATENED	ENDANGERED

c. Is the site part of a migration route? If so, explain.
☒*Pacific flyway* ☐*Other migration route:* *Explain if any boxes checked:*

This proposal area is not utilized as resting or foraging habitat for migratory waterfowl

d. Proposed measures to preserve or enhance wildlife, if any:
The DNR mitigates for the potential of significant adverse environmental impacts to northern spotted owls in the OESF by implementing the HCP strategy. This strategy established threshold percentages for spotted owl habitat on DNR-managed lands for Landscape Planning Units(LPU). Each LPU is managed to achieve and maintain at least 20% Old Forest Habitat and at least 40% of Old and Young Forest (or Structural) habitat types taken together according to a schedule of habitat enhancement and harvest activities developed within the Forest Land Plan. Forest Land Planning has been initiated but not implemented. This proposal consists of 44.4 acres of regeneration harvest in stands greater than 50 years old within the Dickodochtedar LPU. HCP interim guidelines limited regeneration harvests in stands aged 50-years and older to 947 acres in the Dickodochtedar LPU before the implementation of the Forest Land Plan. Including this proposal, there have been 632 acres of regeneration harvest in over 50 year old timber in the LPU.

This sale was determined to be non-murrelet habitat by the OESF interim marbled murrelet strategy.

1) *Note existing or proposed protection measures, if any, for the complete proposal described in question A-11.*

Species /Habitat:None	Protection Measures: None
Species /Habitat: None	Protection Measures: None
Species /Habitat: None	Protection Measures: None

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.
Does Not Apply

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.
Does Not Apply

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:
None

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

1) Describe special emergency services that might be required.
Fire suppression, hazardous waste cleanup, and emergency medical services

2) Proposed measures to reduce or control environmental health hazards, if any:
The proposal requires purchaser to minimize the risk of fire and does not allow for the disposal of any waste upon state lands.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?
None

2) What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from this site.
Noise associated with heavy equipment during road building and harvesting operations.

3) Proposed measures to reduce or control noise impacts, if any:
None

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties? *(Site includes the complete proposal, e.g. rock pits and access roads.)*
Timber production road access to forest lands and recreation

b. Has the site been used for agriculture? If so, describe.
No

c. Describe any structures on the site.
None

d. Will any structures be demolished? If so, what?
No

e. What is the current zoning classification of the site?
Commercial Forestry

f. What is the current comprehensive plan designation of the site?
Forest Land

g. If applicable, what is the current shoreline master program designation of the site?
Not Applicable

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.
No

i. Approximately how many people would reside or work in the completed project?
None

j. Approximately how many people would the completed project displace?
None

k. Proposed measures to avoid or reduce displacement impacts, if any:
Does Not Apply

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:
This proposal is in compliance with existing land use plans.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.
Does Not Apply

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.
Does Not Apply

c. Proposed measures to reduce or control housing impacts, if any:
Does Not Apply

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principle exterior building material(s) proposed?
Does Not Apply

b. What views in the immediate vicinity would be altered or obstructed?

1) *Is this proposal visible from a residential area, town, city, developed recreation site, or a scenic vista?*
☒ *No* ☐ *Yes, viewing location:*

2) *Is this proposal visible from a major transportation or designated scenic corridor (county road, state or interstate highway, US route, river, or Columbia Gorge SMA)?*
☐ *No* ☒ *Yes, scenic corridor name:*
This proposal is visible from US Highway 101 and Highway 110.

3) *How will this proposal affect any views described in 1) or 2) above?*
The view will change from that of mature timber to a freshly harvested stand.

c. Proposed measures to reduce or control aesthetic impacts, if any:
Leave trees and leave tree areas have been strategically placed to break up the harvest unit and provide a more aesthetically pleasing view. Seedlings will be planted following the harvest.

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?
None

b. Could light or glare from the finished project be a safety hazard or interfere with views?
Does Not Apply

c. What existing off-site sources of light or glare may affect your proposal?
None

d. Proposed measures to reduce or control light and glare impacts, if any:
None

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?
Dispersed informal recreation in the form of hunting, berry picking, sightseeing, etc

b. Would the proposed project displace any existing recreational uses? If so, describe:
No

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:
None

13. Historic and Cultural Preservation

a. Are there any places or objects listed on, or proposed for national, state, or local preservation registers known to be on or next to the site? If so, generally describe.
No

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.
None

c. Proposed measures to reduce or control impacts, if any:
(Include all meetings or consultations with tribes, archaeologists, anthropologists or other authorities.)
A Trax report from the Planning and Tracking Special Concerns Report and the cultural resource layers on the State Upland Viewing tool indicated no known cultural resources on or near the proposal area. During the layout of the timber sale no indicators of potential cultural resources were identified within the proposal area

14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.
This proposal is located approximately 5 road miles north of Forks, Washington via Highway 101, the D-2000, and the D-2020 road system

1) *Is it likely that this proposal will contribute to an existing safety, noise, dust, maintenance, or other transportation impact problem(s)?*
No

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?
No, transit in Forks, Washington 5 road miles south of the proposal area.

c. How many parking spaces would the completed project have? How many would the project eliminate?
Does Not Apply

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

1) *How does this proposal impact the overall transportation system/circulation in the surrounding area, if at all?*
Does Not Apply

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.
No

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.
Approximately 10, including vehicle traffic to transport crews and forest products from the proposal area. Peak volumes will occur during peak harvest.

g. Proposed measures to reduce or control transportation impacts, if any:
None

15. Public Services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.
No

b. Proposed measures to reduce or control direct impacts on public services, if any.
None

16. Utilities

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.
None

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?
Dispersed informal recreation in the form of hunting, berry picking, sightseeing, etc

b. Would the proposed project displace any existing recreational uses? If so, describe:
No

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:
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None

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14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.
This proposal is located approximately 5 road miles north of Forks, Washington via Highway 101, the D-2000, and the D-2020 road system

1) Is it likely that this proposal will contribute to an existing safety, noise, dust, maintenance, or other transportation impact problem(s)?
No

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?
No, transit in Forks, Washington 5 road miles south of the proposal area.

c. How many parking spaces would the completed project have? How many would the project eliminate?
Does Not Apply

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

1) How does this proposal impact the overall transportation system/circulation in the surrounding area, if at all?
Does Not Apply

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.
No

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.
Approximately 10, including vehicle traffic to transport crews and forest products from the proposal area. Peak volumes will occur during peak harvest.

g. Proposed measures to reduce or control transportation impacts, if any:
None

15. Public Services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.
No

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None

16. Utilities

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.
None

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.
None

C. SIGNATURE

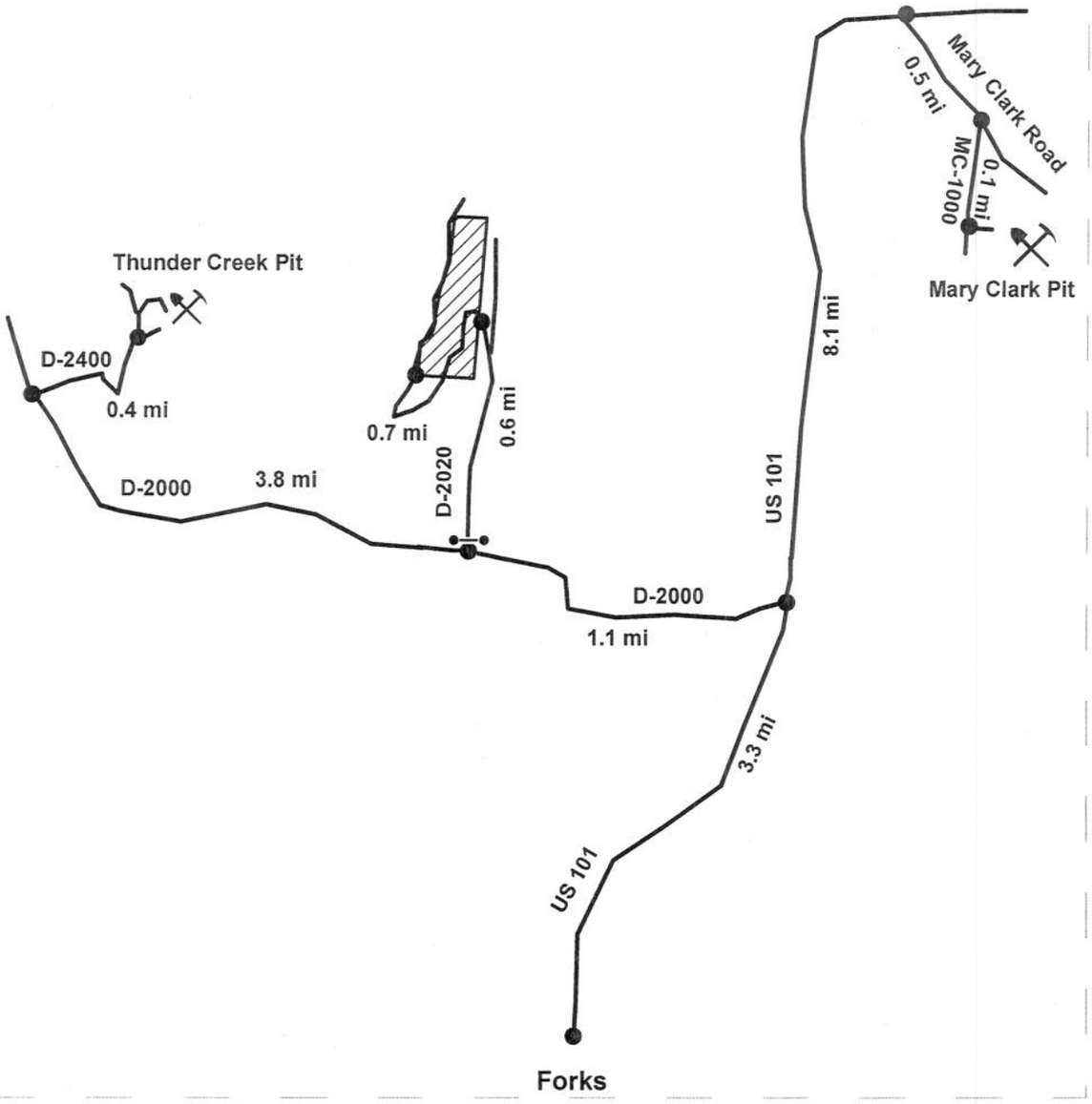
The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Completed by: Chana Bunch Forester 2 Date: 7/1/09
Title

DRIVING MAP

SALE NAME: Gunderson Lookout
AGREEMENT#: 30-084610
TOWNSHIP(S): TWN-29 RNG-13W SCT-20
TRUST(S): Capitol Grant (07)

REGION: Olympic
COUNTY(S): Clallam
ELEVATION RGE: 680-1200 feet



Sale Area
Gate

DRIVING DIRECTIONS:

From Forks, drive north on US 101 3.3 miles until you reach the intersection with the D-2000. Turn left (west) on the D-2000 and drive 1.1 miles to the intersection with the D-2020.Turn right (north) on the D-2020 and follow it 0.6 miles to reach the sale area.

N

Prepared By: Chance Brumley

Creation Date: 06-23-2009

Modification Date: Not defined.